INTERNATIONALSEARCHREPORT

International application No.
PCT/JP03/13132

		101,010.	J, 1919E
	A. CLASSIFICATIONOFSUBJECTMATTER Int. Cl ⁷ G06F17/10, H03H17/06, G10K15/12, G10L19/06		
According to	o International Patent Classification (IPC) or to both na	ational classification and IPC	
B. FIELI	DS SEARCHED		
Minimum do Iz	ocumentation searched (classification system followed by nt. Cl ⁷ G06F17/00-17/18, H03H17/G10L19/00-19/14	classification symbols) 00-17/08, G10K15/00-15/12	,
Applicat	on Searched other than minimum documentation to the education to the education to the education to the education 1971-2004, Japanese Registered Utiing the Utility Model 1996-2004	extent that such documents are included in the Burney of Unexamined Vilty Model Gazette 1994-2004,	he fields searched tility Model Japanese Gazette
Electronic da	ta base consulted during the international search (name o	f data base and, where practicable, search te	rms used)
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
A	SAMADI et al. Universal Ma Lowpass FIR Systems. In: I on Signal Processing, IEEE no. 7, p.1956-1964	EEE Transactions	3
Ŧ	SAMADI et al. Concise Repr Cellular Structure for Uni Flat FIR Filters. In: Proc 2003 International Symposi Systems, IEEE, 2003, vol.	versal Maximally eedings on the um of Circuits and	3
A	HERRMANN, On the Approximation Problem in Nonrecursive Digital Filter Design. In: IEEE Transactions on Circuits and Systems, IEEE, 1971, vol. 18, p. 411-413		3
A	BAHER, FIR Digital Filters Conditions on Amplitude an Electronics Letters, 1982, p.296-297	d Delay,	3
Furthe	er documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which			considered to involve an
is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "O" document referring to an oral disclosure, use, exhibition or other means			
"P" docume than th	ent published prior to the international filing date but later e priority date claimed		
Date of the actual completion of the international search 13.01.2004 Date of mailing of the international search report 27 1 2004			-
Name and mailing address of the ISA/ID			
Japan Patent Office		Shoji HADATE Seal 5B 2944	
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan Telephone No. +81-3-3581-1101 Ext. 3545			xt. 3545

Form PCT/ISA/210 (second sheet) (July 1998)

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: 1, 2 because they relate to subject matter not required to be searched by this Authority, namely:			
The subject matters of claims 1 and 2 relate to scientific and mathematical theories, which do not require an international search by the International Searching Authority in accordance with PCT Article 17(2)(a)(i) and Rule 39.1(i)			
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such a extent that no meaningful international search can be carried out, specifically:			
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:			
As all required additional search fees were timely paid by the applicant, this international search report covers all searchab claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment any additional fee.			
As only some of the required additional search fees were timely paid by the applicant, this international search report cove only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on Protest			
No protest accompanied the payment of additional search fees.			